| * .47% | Approved For Release 2002/06/17 : CIA-RDP78B04747A002100040055-5 | |
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| | CLE | earwater 9-8015 STATINTL |
| | December 12, 1958 | |
| STATINTL | December 12, 1756 | |
| Dea | PROPOSAL FOR A HIGH SPEED COMPARATOR FOR VERY LONG FRAMES OF 70 MM AND 140 MM FILM | |
| all engi roll eyej of t | The large desired X travel of 45 inches and relatively smaller Y travelinches lends itself to configuration such that the film is nearly stationary less and the microscope moves in both X and Y coordinates. Proper hum ering to allow comfortable operation would place the operator in a chair siding a track such that the eye was always comfortable at the microscope and all controls within easy reach at all times. This makes power selong X axis screw a necessity. The instrument we propose to furnish woll the above features. | y at an on ope etting |
| and cath be b | The base would be a rectangular box of the | ld ould |
| lead 30 n | At the front of the base would be a precision screw of 1 mm pitch, 10 lo multiple thread, driven by a reversible motor at speeds of approximate per second. This would permit traverse of the entire span of 45" traverse seconds. | tely l in |
| seve actu 4 re revo scre | The drive motor for the X axis drive would be a torque motor as manually developed by the drive and setting of comparator screws. Buse on a comparator screw we have been able to have slew speeds of up autions per second down to incremental advances of as little as 1/2000 of ition of the screw. The motor would be direct mounted on the end of the and have a separate power supply. Controls would move with the stage and permit left or right slew speeds, left or right slow speeds and left or properties. | nas y to a |

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| | Page #2 | Dec | em 12, 1958 | |
| a 10 mm lead 1 mr | n pitch screw,tra With such a short | ve a microscope trave verse of 5 1/2" or 140 time, the Y axis scre | mm would require | th |
| STATINTL | | | | |
| A metal d as to give a least o associated scales t mounted on the scr | count readout of co give a turn countered to digitize | the motion of each so | These dials and checking the digitization Reading Head | zers |
| steel tube. Power would be furnished for comfortable vie | moving elements would vary from The microscop wing by a seated ove by means of a | internal focus, internal mounted in a hardene 6X to 15X and a maga e would be mounted at operator. Optically, precision front surface | ed, ground and honed zine for four reticle an angle to the stag it would see the film | l s e |
| and 140 mm spools Unless otherwise s During measureme of two glass pressu the action of four m only the hard chron This film stage ass parallel to the ways | of almost any size pecified, design want, the film is property of the plates. During agnetic solenoids are plated and policembly can be rotated. | ted at the ends of the of the being easily mounter would be for the diamed evented from moving by film advance the plate. During the advance shed rollers at the end ated a small amount to or. | d or interchanged. ter of a 200 foot spoot ter of a 200 foot spoot the clamping motites are separated by the film would touch of the film stage. O bring fiducials | ool. on 7 h |
| STATINTL INTL For the co | managatow on a second | ::: | | STATIN |
| with metal dials on | mparator as spec the screws the | ified above, with table | e and chair on rails | and |
| Type 20A an addition ment, For darea, an additional Terms 1/2 of 1% 10 | each Magnetic R nal installed elivery and setup Deliver days, net 30 day STATINTL | eading Head Type 15A For special packin by one of our enginee ry would be 150 days a STATINTL | g and packaging for rs in the Washington after receipt of orde | ship- |
| If we can b | e of any further a | ssistance or if you re | quire additional | |
| information or clar | ification, please | lo not hesitate to inqu | ire. | |
| | Very | truly yours, | | |
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